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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/754,795	01/08/2004	Charles S. Taylor	3135.001	8595

7590

12/06/2005

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EXAMINER

LECHERT JR, STEPHEN J

ART UNIT

PAPER NUMBER

1732

DATE MAILED: 12/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/754,795

Applicant(s)

TAYLOR ET AL.

Examiner

Stephen J. Lechert Jr.

Art Unit

1732

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-70 is/are pending in the application.
- 4a) Of the above claim(s) 55-70 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-54 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-70 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 10-26-2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Applicant's election with traverse of Group I in the reply filed on 9-15-2005 is acknowledged. The traversal is on the ground(s) that the Group I and Group II are combination, sub-combination claims and the Group I and Group III are closely related and should be examined together. This is not found persuasive because the apparatus of the group II claims could be used in another and materially different apparatus than the group I claims. For example, the support can be used in laminating apparatus of performs rather than being used in a 3-D forming apparatus of the group I claims. With respect to the Group III method claims, the process can be performed with a materially different apparatus than the Group I claims. For example, the dispenser could be moved vertically rather than using the terraced support means.

The requirement is still deemed proper and is therefore made FINAL.

2. Group I claims which are pending include claims 1-54 as correctly pointed out by applicant. The examiner apologizes for the typographical error.

3. Claims 1-54 are free of the prior art as the prior art fails to teach and/or suggest a system for high volume print forming comprising in combination a bed having a plurality of alignment location wherein at least two or three of the alignment locations are positioned at different heights relative to each other, a plurality of substrate blocks, each substrate block including a substantially planar exposed surface, and a printer located adjacent the exposed surfaces of the substrate block. By providing system with a bed having a plurality of alignment locations having different heights relative to each to provide a high volume print forming method which has a large number of distinct printing locations and which has printing locations arrayed in two dimensions to minimize overall length of the region where printing occurs and can precisely form high volumes of three-dimensional printed structures to exacting tolerances in a rapid low cost method.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hiizumi et al. teach a three-dimensional forming apparatus but does not teach the alignment locations being at different heights.

5. This application is in condition for allowance except for the following formal matters:

Cancel non-elected claims 55-70.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS from the mailing date of this letter.**


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Lechert Jr. whose telephone number is 571-272-1203. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Colaianni can be reached on

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571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Stephen J. Lechert Jr.
Primary Examiner
Art Unit 1732